	Application No.	**Applicant(s)**
Interview Summary	10/073,245	KATAOKA ET AL.
	Examiner	**Art Unit**
	Cam Y T. Truong	2162

All participants (applicant, applicant's representative, PTO personnel):

(1) *Cam Y T. Truong (Examiner)*.   (3)_____.

(2) *Richard A. Gollhofer (Attorney)*.   (4)_____.

Date of Interview: *07 November 2005*.

Type: a)☒ Telephonic   b)☐ Video Conference
      c)☐ Personal [copy given to: 1)☐ applicant   2)☐ applicant's representative]

Exhibit shown or demonstration conducted: d)☐ Yes   e)☒ No.
  If Yes, brief description: _____.

Claim(s) discussed: *1-47*.
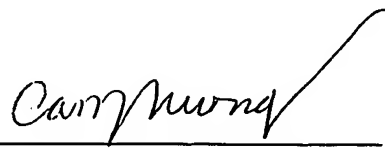
Identification of prior art discussed: _____.

Agreement with respect to the claims f)☒ was reached.   g)☐ was not reached.   h)☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: *See Continuation Sheet*.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

_____
Examiner's signature, if required

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record
A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews
Paragraph (b)
In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.
All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

———

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:
- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:
1) A brief description of the nature of any exhibit shown or any demonstration conducted,
2) an identification of the claims discussed,
3) an identification of the specific prior art discussed,
4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
5) a brief identification of the general thrust of the principal arguments presented to the examiner,
   (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
6) a general indication of any other pertinent matters discussed, and
7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: A telephone call was made to applicant's representative about a potential amendment for allowance. Applicant representative agreed on Examiner's prosposal and authorization has been given for an examiner's amendment following:

1. (CURRENTLY AMENDED) A computer implemented file processing method for compressing a section of data and index data comprising:
dividing both the data and the index data into a plurality of sections, wherein the index data is different from the data, the index data corresponds to the data and is used to search or retrieve the data, where each of the sections comprises the data and the index data, and the data comprises at least one of text data, image data, and audio data;
creating a conversion table for each section by selecting a predetermined number of 16-bit codes within the data in an order of appearing frequency, decomposing remaining non-selected 16-bit codes into 8-bit codes, and selecting the 8-bit codes in an order of appearing frequency;
compressing each of the sections based on the conversion table created therefor using a corresponding one of a plurality of different compression parameters to obtain a compressed file;
storing the compressed file in a storage medium together with address information and the different compression parameters of the sections after compression; and
expanding at least one of the sections in the compressed file read from the storage medium using the corresponding one of a plurality of different compression parameters for each section.

2. (CURRENTLY AMENDED) The file processing method as claimed in claim 1, wherein said compressing uses the plurality of different compression parameters based on a distribution of an appearing frequency for each word within a file.

3. (CURRENTLY AMENDED) The file processing method as claimed in claim 1, wherein said compressing comprises a flag, which indicates non-compressed data in control information of a certain section, if data in the certain section has a larger amount of information in a form of compressed data than the non-compressed data.

4. (CURRENTLY AMENDED) The file processing method as claimed in claim 1, wherein said compressing comprises identification information of the different compression parameters in control information of each section.

5. (CURRENTLY AMENDED) The file processing method as claimed in claim 1, wherein said compressing adds end information, which indicates an end of a section to an end of each section, adds the end information to only a last section when the sections have a fixed length, and comprises a flag indicating that the end information is deleted in control information of the sections other than the last section.

6. (CURRENTLY AMENDED) The file processing method as claimed in claim 1, further comprising:
expanding the compressed file, which is read from the storage medium by driver software, which is independent of application software of a computer.

7. (CURRENTLY AMENDED) A data processing apparatus comprises a processor for compressing a section of data and index data, comprising:
a compressing process section to divide both the data and the index data into a plurality of sections, and to compress each of the sections based on a conversion table using a corresponding one of a plurality of different compression parameters to obtain a compressed file after creating the conversion table for each section by selecting a predetermined number of 16-bit codes within the data in an order of appearing frequency, decomposing remaining non-selected 16-bit codes into 8-bit codes, and selecting the 8-bit codes in an order of appearing frequency,
wherein the index data is different from the data, the index data corresponds to the data and is used to search or retrieve the data, where each of the sections comprises the data and the index data, and wherein the data comprises at least one of text data, image data, and audio data;
a storing process section to store the compressed file in a storage medium together with address information and the different compression parameters of the sections after compression; and
an expanding process section to expand at least one of the sections in the compressed file read from the storage medium using the corresponding one of a plurality of different compression parameters for each section.

8. (CURRENTLY AMENDED) The data processing apparatus as claimed in claim 7, wherein said compressing process section uses the plurality of different compression parameters based on a distribution of an appearing frequency for each word within a file.

9. (CURRENTLY AMENDED) The data processing apparatus as claimed in claim 7, wherein said compressing

process section comprises a flag that indicates non-compressed data in control information of a certain section if data in the certain section has a larger amount of information in a form of compressed data than the non-compressed data.

10. (CURRENTLY AMENDED) The data processing apparatus as claimed in claim 7, wherein said compressing process section comprises identification information of the different compression parameters in control information of each section.

11. (CURRENTLY AMENDED) The data processing apparatus as claimed in claim 7, wherein said compressing process section adds end information, which indicates an end of a section to an end of each section, adds the end information to only a last section when the sections have a fixed length, and comprises a flag indicating that the end information is deleted in control information of the sections other than the last section.

12. (CURRENTLY AMENDED) The data processing apparatus as claimed in claim 7, further comprising:
the expanding process section to expand the compressed file, which is read from the storage medium by driver software, which is independent of an application software of a computer.

13. (CURRENTLY AMENDED) A storage medium stores computer-readable information and a program for compressing a section of data and index data comprising:
compressing process means for causing a computer to divide both the data and the index data into a plurality of different sections, and to compress each of the sections based on a conversion table using a corresponding one of a plurality of different compression parameters to obtain a compressed file after creating the conversion table for each section by selecting a predetermined number of 16-bit codes within the data in an order of appearing frequency, decomposing remaining non-selected 16-bit codes into 8-bit codes, and selecting the 8-bit codes in an order of appearing frequency,
wherein the index data is different from the data, the index data corresponds to the data and is used to search or retrieve the data, where each of the sections comprises the data and the index data, and wherein the data comprises at least one of text data, image data, and audio data;
storing process means for causing the computer to store the compressed file in storage means together with address information and the different compression parameters of the sections after compression; and
expanding process means for causing the computer to expand at least one of the sections in the compressed file read from the storage means using the corresponding one of a plurality of different compression parameters for each section.

14. (CURRENTLY AMENDED) The storage medium as claimed in claim 13, wherein said compressing process means causes the computer to use the plurality of different compression parameters based on a distribution of an appearing frequency for each word within a file.

15. (CURRENTLY AMENDED) The storage medium as claimed in claim 13, wherein said compressing process means causes the computer to comprise a flag, which indicates non-compressed data in control information of a certain section, if data in the certain section has a larger amount of information in a form of compressed data than the non-compressed data.

16. (CURRENTLY AMENDED) The storage medium as claimed in claim 13, wherein said compressing process means causes the computer to comprise identification information of the different compression parameters in control information of each section.

17. (CURRENTLY AMENDED) The storage medium as claimed in claim 13, wherein said compressing process means causes the computer to add end information which indicates an end of a section to an end of each section, add the end information to only a last section when the sections have a fixed length, and comprise a flag indicating that the end information is deleted in control information of the sections other than the last section.

18. (ORIGINAL) The storage medium as claimed in claim 13, wherein the program further comprising:
expanding process means which causes the computer to expand the compressed file, which is read from the storage means by a driver software, which is independent of an application software of the computer.

19. (CURRENTLY AMENDED) A storage medium stores computer-readable information for compressing and expanding a section of data and index data, comprising:
a region storing a compressed file which is divided into a plurality of sections, wherein each of sections is compressed based on a conversion table using a corresponding one of a plurality of different compression parameters after creating the conversion table for each section by selecting a predetermined number of 16-bit codes within the data in an order of appearing frequency, decomposing remaining non-selected 16-bit codes into 8-bit codes, and selecting the 8-bit

codes in an order of appearing frequency;
a region storing address information of the sections and the different compression parameters thereof, wherein each of the sections comprises both the data and index data, where the index data is different from the data, the index data corresponds to the data and is used to search or retrieve the data, and wherein the data comprises at least one of text data, image data, and audio data; and
a region expanding at least one of the sections in the compressed file read from the storage medium using the corresponding one of the plurality of different compression parameters for each section.

20. (CURRENTLY AMENDED) The storage medium as claimed in claim 19, wherein the different compression parameters are based on a distribution of an appearing frequency for each word within said compressed file.

21. (PREVIOUSLY PRESENTED) The storage medium as claimed in claim 19, wherein a flag, which indicates non-compressed data, is comprised in control information of a certain section if data in the certain section has a larger amount of information in a form of compressed data than the non-compressed data.

22. (CURRENTLY AMENDED) The storage medium as claimed in claim 19, wherein identification information of the different compression parameters is comprised in control information of each section.

23. (CURRENTLY AMENDED) The storage medium as claimed in claim 19, wherein end information, which indicates an end of a section, is added to an end of each section, the end information is added to only a last section when the sections have a fixed length, and a flag indicating that the end information is deleted is comprised in control information of the sections other than the last section.

24. (PREVIOUSLY PRESENTED) The storage medium as claimed in claim 19, further storing:
a driver software is independent of application software of a computer,
said driver software comprising a program provided with expanding process means for causing the computer to expand the compressed file which is read from the storage medium.

25. (Currently Amended) A computer implemented file processing method for retrieving a section of data and index data, comprising:
a reading step accesses a storage medium which stores a plurality of different compression parameters, address parameters, and a compressed file formed from an original file divided into a plurality of sections and compressed for each section based on a conversion table using a corresponding one of the plurality of different compression parameters,
wherein the conversion table is created for each section by selecting a predetermined number of 16-bit codes within the data in an order of appearing frequency, decomposing remaining non-selected 16-bit codes into 8-bit codes, and selecting the 8-bit codes in an order of appearing frequency, so as to obtain a plurality of section data forming the compressed file and address information corresponding to a plurality of sections, and
wherein each of the sections comprises both the data and the index data, where the index data is different from the data, the index data corresponds to the data and is used to search or retrieve the data, wherein the data comprises at least one of text data, image data, and audio data; and
an expanding step, which expands the section data in the compressed file, read from the storage medium by said reading step using the different compression parameters corresponding to the section data.

26. (CURRENTLY AMENDED) The file processing method as claimed in claim 25, wherein the plurality of different compression parameters are created based on a distribution of an appearing frequency for each word within said original file.

27. (PREVIOUSLY PRESENTED) The file processing method as claimed in claim 25, wherein the compressed file further comprises non-compressed section data of a certain section and a non-compression flag which indicates that the certain section is non-compressed, and said expanding step suppresses expansion of the certain section when the non-compression flag indicates a non-compressed state of the section data of the certain section read from the storage medium by said reading step.

28. (CURRENTLY AMENDED) The file processing method as claimed in claim 25, wherein identification information of the different compression parameters is comprised in control information of each section.

29. (PREVIOUSLY PRESENTED) The file processing method as claimed in claim 25, wherein a delete flag, which indicates that end information indicating an end of each section is not added to the section data, is comprised in control information of each section, and said reading step reads the section data by judging a last section based on the delete flag.

30. (ORIGINAL) The file processing method as claimed in claim 25, wherein said expanding step is carried out by a driver software for the storage medium, said driver software being used for making access to the storage medium.

31. (CURRENTLY AMENDED) The file processing method as claimed in claim 30, wherein the driver software for the storage medium is independent of application software of a computer.

32. (CURRENTLY AMENDED) A data processing apparatus comprises a processor for compressing and expanding a section of data and index data, comprising:
a reading process section to control access to a storage medium which stores a plurality of different compression parameters, address parameters, and a compressed file formed from an original file divided into a plurality of sections and compressed for each section based on a conversion table using a corresponding one of the plurality of different compression parameters,
wherein the conversion table is created for each section by selecting a predetermined number of 16-bit codes within the data in an order of appearing frequency, decomposing remaining non-selected 16-bit codes into 8-bit codes, and selecting the 8-bit codes in an order of appearing frequency, so as to obtain a plurality of section data forming the compressed file and address information corresponding to a plurality of sections, and
wherein each of the sections comprises both the data and the index data, where the index data is different from the data, the index data corresponds to the data and is used to search or retrieve the data, wherein the data comprises at least one of text data, image data, and audio data; and
an expanding process section to expand the section data in the compressed file read from the storage medium by said reading process section using the different compression parameters corresponding to the section data.

33. (CURRENTLY AMENDED) The data processing apparatus as claimed in claim 32, wherein the plurality of different compression parameters are created based on a distribution of an appearing frequency for each word within said original file.

34. (PREVIOUSLY PRESENTED) The data processing apparatus as claimed in claim 32, wherein the compressed file further comprises non-compressed section data of a certain section and a non-compression flag which indicates that the certain section is non-compressed, and said expanding process section suppresses expansion of the certain section when the non-compression flag indicates a non-compressed state of the section data of the certain section read from the storage medium by said reading process section.

35. (PREVIOUSLY PRESENTED) The data processing apparatus as claimed in claim 32, wherein identification information of the different compression parameters is comprised in control information of each section.

36. (ORIGINAL) The data processing apparatus as claimed in claim 32, wherein a delete flag, which indicates that end information indicating an end of each section is not added to the section data, is comprised in control information of each section, and said reading process section controls reading of the section data by judging a last section based on the delete flag.

37. (ORIGINAL) The data processing apparatus as claimed in claim 32, wherein said expanding process section carries out expansion by a driver software for the storage medium, said driver software being used for making access to the storage medium.

38. (ORIGINAL) The data processing apparatus as claimed in claim 37, wherein the driver software for the storage medium is independent of application software of the data processing apparatus.

39. (CURRENTLY AMENDED) A data processing apparatus comprise a processor for retrieving a section of data and index data, comprising:
a reading process section to control an access to a storage medium which stores a plurality of different compression parameters, address parameters, and a compressed file in response to a read request from an application software, the compressed file formed from an original file divided into a plurality of sections and compressed for each section based on a conversion table using a corresponding one of the plurality of different compression parameters, wherein the conversion table is created for each section by selecting a predetermined number of 16-bit codes within the data in an order of appearing frequency, decomposing remaining non-selected 16-bit codes into 8-bit codes, and selecting the 8-bit codes in an order of appearing frequency, so as to obtain a plurality of section data forming the compressed file and address information corresponding to a plurality of sections, and
wherein each of the sections comprises both the data and the index data, where the index data is different from the data, the index data corresponds to the data and is used to search or retrieve the data, wherein the data comprises at least one of text data, image data, and audio data; and

an expanding process section to expand the section data in the compressed file read from the storage medium by said reading process section using the different compression parameters corresponding to the section data, and to supply expanded data to the application software.

40. (CURRENTLY AMENDED) A storage medium stores computer-readable information and stores a program for compressing and expanding a section of data and index data, comprising:
reading process means for causing a computer to control access to a recording medium which stores a plurality of different compression parameters, address parameters, and a compressed file formed from an original file divided into a plurality of sections and compressed for each section based on a conversion table using a corresponding one of the plurality of different compression parameters,
wherein the conversion table is created for each section by selecting a predetermined number of 16-bit codes within the data in an order of appearing frequency, decomposing remaining non-selected 16-bit codes into 8-bit codes, and selecting the 8-bit codes in an order of appearing frequency, so as to obtain a plurality of section data forming the compressed file and address information corresponding to a plurality of sections, and
wherein each of the sections comprises both the data and the index data, where the index data is different from the data, the index data corresponds to the data and is used to search or retrieve the data, wherein the data comprises at least one of text data, image data, and audio data; and
expanding process means for causing the computer to expand the section data in the compressed file read from the recording medium by said reading process means using the different compression parameters corresponding to the section data.

41. (CURRENTLY AMENDED) The storage medium as claimed in claim 40, wherein the plurality of different compression parameters are created based on a distribution of an appearing frequency for each word within said original file.

42. (PREVIOUSLY PRESENTED) The storage medium as claimed in claim 40, wherein the compressed file further comprises non-compressed section data of a certain section and a non-compression flag which indicates that the certain section is non-compressed, and said expanding process means causes the computer to suppress expansion of the certain section when the non-compression flag indicates a non-compressed state of the section data of the certain section read from the recording medium by said reading process.

43. (CURRENTLY AMENDED) The storage medium as claimed in claim 40, wherein identification information of the different compression parameters is comprised in control information of each section.

44. (PREVIOUSLY PRESENTED) The storage medium as claimed in claim 40, wherein a delete flag, which indicates that end information indicating an end of each section is not added to the section data, is comprised in control information of each section, and said reading process means causes the computer to control reading of the section data by judging a last section based on the delete flag.

45. (ORIGINAL) The storage medium as claimed in claim 40, wherein said expanding process means causes the computer to carry out expansion by a driver software for the recording medium, said driver software being used for making access to the recording medium.

46. (ORIGINAL) The storage medium as claimed in claim 45, wherein the driver software for the recording medium is independent of an application software of the computer.

47. (CURRENTLY AMENDED) A storage medium stores computer-readable information and a program for retrieving a section of data and index data, comprising:
reading process means for causing a computer to control access to a recording medium which stores a plurality of different compression parameters, address parameters, and a compressed file, in response to a read request from application software, the compressed file formed from an original file divided into a plurality of sections and compressed for each section based on a conversion table using a corresponding one of the plurality of different compression parameters,
wherein the conversion table is created for each section by selecting a predetermined number of 16-bit codes within the data in an order of appearing frequency, decomposing remaining non-selected 16-bit codes into 8-bit codes, and selecting the 8-bit codes in an order of appearing frequency, so as to obtain a plurality of section data forming the compressed file and address information corresponding to a plurality of sections, and
wherein each of the sections comprises both the data and the index data, where the index data is different from the data, the index data corresponds to the data and is used to search or retrieve the data, wherein the data comprises at least one of text data, image data, and audio data; and
expanding process means for causing the computer to expand the section data in the compressed file read from the

recording medium by said reading process means using the different compression parameters corresponding to the section data, and supply expanded data to the application software.